

DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES LICENSING AND REGULATORY AFFAIRS

BUREAU OF SAFETY AND REGULATION DIRECTOR'S OFFICE

GENERAL INDUSTRY SAFETY STANDARDS COMMISSION

These rules take effect 15 days after filing with the Secretary of State

(By authority conferred on the director of the department of licensing and regulatory affairs consumer and industry services by sections 16 and 21 of 1974 PA 154, and Executive Reorganization Order Nos. 1996-2, 2003-1, 2008-4, and 2011-4, MCL 445.2001, 445.2011, 445.2025, and 445.2030 Act No. 154 of the Public Acts of 1974, as amended, and Executive Reorganization Order no. 1996-2, being §§408.1016, 408.1021, and 445.2001 of the Michigan Compiled Laws)

R 408.10914, R 408.10925, and R 408.10999 of the Michigan Administrative Code are amended, as follows:

PART 9. FIXED FIRE EQUIPMENT

R 408.10914. Requirements.

Rule 914. (1) A fixed fire equipment system, as listed in R 408.10921 and R 408.10941 to R 408.10976 rules 921 and 941 to 976, shall be installed for all of the following:

(a) All areas inside a building where flammable liquids are mixed, dispensed or applied, or used for washing or quenching, except either of the following:

(i) A dip tank holding less than 150 gallons, having less than 4 square feet of liquid surface or both.

(ii) As dispensed from an approved safety container of 5 gallons or less.

(b) Other areas where the quantities of flammables are likely to burn rapidly and injure a nearby employee. Such a system shall be classed according to table 1. Other equivalent systems may be used, if such systems meet standards or tests of the department of licensing and regulatory affairs consumer and industry services and are installed and maintained in accordance with nationally recognized requirements.

(2) Where a fixed fire equipment system is required or is installed and in use, it shall be installed and maintained as prescribed in R 408.10916 to R 408.10984 rules 916 to 984.

(3) Except as prescribed in R 408.10971 rule 971, a fixed fire equipment system containing an active agent or propellant whose thermal decomposition product of products have a level of vapor toxicity equal to or greater than any of the materials listed in table 2 shall not be used, installed for use, or allowed to remain installed for use where an employee would be exposed to the agent or propellant.

TABLE 1	
HAZARD	EXTINGUISHER AGENT TYPE AND CONTENTS
CLASS A	FIRE FOAM, MULTI-PURPOSE DRY CHEMICAL, HALOGENATED AGENTS, WATER.
CLASS B FIRE	CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER, MULTILPURPOSE DRY CHEMICAL, HALOGENATED AGENTS SUCH AS HALON 1301.
CLASS C FIRE	CARBON DIOXIDE, DRY CHEMICAL, MULTI-PURPOSE DRY CHEMICAL, WATER MIST, HALOGENATED AGENTS.
CLASS D FIRE	EXTINGUISHING AGENT LISTED FOR USE ON A SPECIFIC COMBUSTIBLE METAL HAZARD.

TABLE 2
1. Carbon tetrachloride, CCL ₄
2. Chlorobromomethane, CH ₂ Br CL
3. Azeotropic chlormethane, CM ₇
4. Dibromodifluoromethane, CBr ₂ F ₂
5. 1, 2-dibromo-2 chloro-1, 1, 2-trifluoroethane, Cbr F ₂ CBrClf
6. 1, 2-dibromo-2, 2-difluoroethane, CH ₂ BrCBrF ₂

7. Methyl bromide, CH ₃ Br
8. Ethylene dibromide, CH ₂ BrCH ₂ Br
9. Hydrogen bromide, HBr
10. Methylene bromide, CH ₂ Br ₂
11. Bromodifluoromethane, CHBrF ₂

R 408.10925. Inspection and maintenance.

Rule 925. (1) A sprinkler shall not be painted or coated except by the sprinkler manufacturer. Excepted are petroleum jelly or paper bag coverings, which shall not interfere with the normal functioning of the sprinkler.

(2) An automatic sprinkler shall be replaced with a new sprinkler after it is installed 50 years or shows evidence of corrosion, leakage, or damage.

~~(3) A sprinkler in a spray area shall be kept free of deposits which would interfere with its operation.~~

(3) ~~(4)~~ A sprinkler wrench shall be used for installing and removing a sprinkler.

(4) ~~(5)~~ A broken or loose pipe hanger shall be replaced or refastened.

(5) ~~(6)~~ The employer shall perform a main drain flow test on each system annually. The inspectors test valve shall be opened not less than every 2 years to assure the system operates properly.

R 408.10999. Reference standards.

Rule 999. The N.F.P.A. standards herein referred to are incorporated by reference. The standards are available for inspection at the ~~Safety Standards Division, Bureau of Safety and Regulation,~~ Michigan Department of **Licensing and Regulatory Affairs, MIOSHA Standards Section Consumer and Industry Services**, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan 48909. The standards may be purchased ~~at the prescribed cost~~ from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269, or **via the internet at www.nfpa.org at a cost as of the time of adoption of these rules, as stated in this rule:** from the Michigan Department of Consumer and Industry Services:

(a) N.F.P.A. #13-1980, Installation of Sprinkler Systems, cost ~~\$8.00~~ **\$27.00** each.

(b) N.F.P.A. #14-1980, Standpipe and Hose Systems, cost ~~\$6.00~~ **\$27.00** each.

(c) N.F.P.A. #12-1980, Carbon Dioxide Extinguishing Systems, cost ~~\$5.25~~ **\$27.00** each.

(d) N.F.P.A. #17-1980, Dry Chemical Extinguishing Systems, cost ~~\$6.00~~ **\$27.00** each.

(e) N.F.P.A. #11-1978, Foam Extinguishing Systems, cost ~~\$8.25~~ **\$27.00** each.

(f) N.F.P.A. #11A-1981, High Expansion Foam Systems, cost ~~\$6.00~~ **\$27.00** each.

(g) N.F.P.A. #11B-1977, Synthetic Foam and Combined Agent Systems, cost ~~\$6.00~~ **\$27.00** each.

(h) N.F.P.A. #16-1980, Foam-Water Sprinkler Systems and Foam-Water Spray Systems, Cost ~~\$5.25~~ **\$27.00** each.

(i) N.F.P.A. #12A-1980, Halogenated Fire Extinguishing Agent Systems – Halon 1301, cost ~~\$5.25~~ **\$27.00** each.

(j) N.F.P.A. #72A-1979, Installation, Maintenance & Use of Local Protective Signaling Systems for Watchmen, Fire Alarm & Supervisory Service, cost ~~\$6.50~~ **\$27.00** each.

(k) N.F.P.A. #72E-1982, Automatic Fire Detection Systems, Cost ~~\$6.50~~ **\$27.00** each.